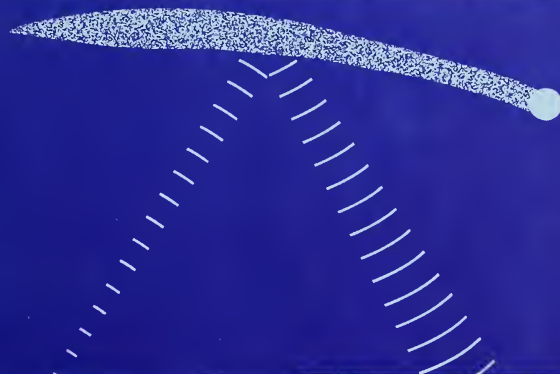


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WATER SUPPLY OUTLOOK FOR COLORADO AND NEW MEXICO



U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

**COLORADO STATE UNIVERSITY EXPERIMENT STATION
STATE ENGINEER of COLORADO
and STATE ENGINEER of NEW MEXICO**

AS OF
APR. 1, 1978

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: SOME OF THE DATA IN THIS REPORT HAVE BEEN RECEIVED THROUGH THE SOIL CONSERVATION SERVICE'S NEW SNOTEL SYSTEM WHICH TRANSMITS INFORMATION VIA THE SPACE AGED METEOR BURST METHOD FROM DATA SITES TO MASTER STATIONS LIKE THESE.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregon 97204
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.



WATER SUPPLY OUTLOOK FOR COLORADO AND NEW MEXICO

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

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WATERSHED II - ARKANSAS RIVER WATERSHED

Describes water supply conditions in Lake County, Upper Arkansas, Fremont, Custer County Divide, Fountain Valley, Black Squirrel, Horse-Rush Creek, Central Colorado, Turkey Creek, Pueblo, Bessemer, Olney Boone, Cheyenne, Upper Huerfano, Stonewall, Spanish Peaks, Purgatoire, Branson Trinchera, Western Baca, Southeastern Baca, Two Buttes, Bent, Timpas, Northeast Prowers, Prowers, Kiowa County, West Otero, East Otero, and Big Sandy Soil Conservation Districts.

WATERSHED III - RIO GRANDE WATERSHED (COLORADO)

Describes water supply conditions in Rio Grande, Center, Conejos, Mosca Hooper, Mt. Blanca, Sanchez, and Culebra Soil Conservation Districts.

WATERSHED IV - RIO GRANDE WATERSHED (NEW MEXICO)

Describes water supply conditions in Upper Chama, East Rio Arriba, Taos, Lindrieth, Jemez, Santa Fe - Pojoaque, Sandoval, Tijeras, Cuba, and Edgewood Soil Conservation Districts.

WATERSHED V - DOLORES, SAN JUAN, AND ANIMAS RIVERS WATERSHED

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WATERSHED VI - GUNNISON RIVER WATERSHED

Describes water supply conditions in Delta, Gunnison, Cimarron, Shavano, and Uncompahgre Soil Conservation Districts.

WATERSHED VII - COLORADO RIVER WATERSHED

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WATERSHED VIII - YAMPA, WHITE AND NORTH PLATTE RIVERS WATERSHED

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WATER SUPPLY OUTLOOK

as of
APRIL 1, 1978



The map on this page indicates the most probable water supply as of the date of this report. Estimates assume average conditions of snow fall, precipitation and other factors from this date to the end of the forecast period. As the season progresses accuracy of estimates improve. In addition to expected streamflow, reservoir storage, soil moisture in irrigated areas, and other factors are considered in estimating water supply. Estimates apply to irrigated areas along the main streams and may not indicate conditions on small tributaries.

WATER SUPPLY CONDITIONS

as of

APRIL 1, 1978

WATER SUPPLIES SHOULD RANGE FROM NEAR AVERAGE TO EXCELLENT IN ALL AREAS OF COLORADO AND NEW MEXICO. APRIL FIRST SNOW SURVEYS SHOW SIGNIFICANT IMPROVEMENTS IN THE SNOWPACK FOR THE SOUTHWESTERN PORTIONS OF COLORADO AND PORTIONS OF THE RIO GRANDE DRAINAGE. RESERVOIR STORAGE REMAINS WELL BELOW NORMAL BUT THERE SHOULD BE SUFFICIENT RUNOFF TO REPLENISH STORED WATER IN ALL BUT THE LARGEST RESERVOIRS. SOIL MOISTURE IN IRRIGATED AREAS RANGES ALL THE WAY FROM POOR TO EXCELLENT.



COLORADO-- STORMS DURING MARCH DUMPED HEAVY AMOUNTS OF PRECIPITATION IN THE SOUTHWESTERN MOUNTAINS AND THE EFFECT EXTENDED INTO THE CENTRAL AND NORTHERN MOUNTAINS. A MAXIMUM OF RECORD, 175 INCHES OF SNOW WITH 75.7 INCHES OF WATER, WAS MEASURED NEAR STEAMBOAT SPRINGS IN THE PARK RANGE. STREAMFLOWS ARE EXPECTED TO RANGE FROM SLIGHTLY BELOW NORMAL IN THE RIO GRANDE DRAINAGE TO A HIGH OF 146% OF NORMAL ON THE YAMPA RIVER. FRONT RANGE STREAMFLOW FORECASTS HAVE DECREASED FROM LAST MONTH TO ABOUT 115% OF NORMAL. THE COLORADO RIVER AND TRIBUTARIES SHOULD FLOW 30% ABOVE NORMAL.

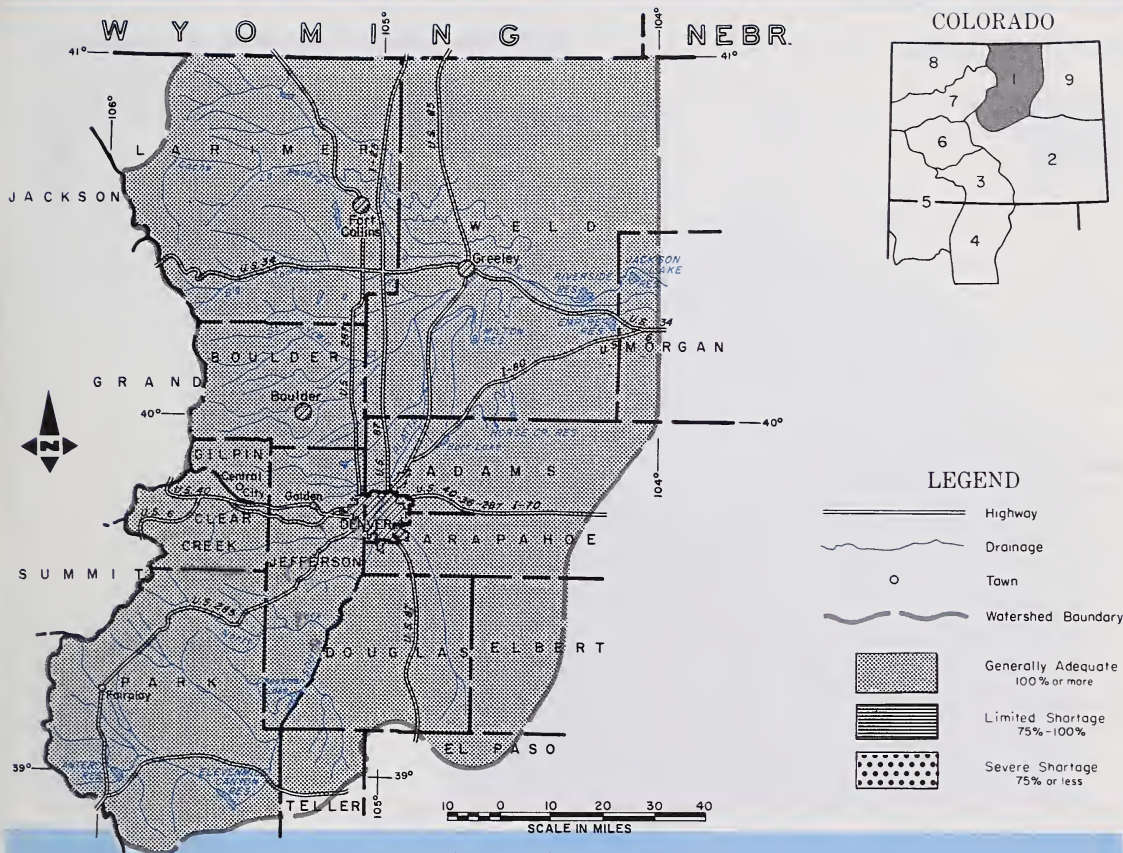


NEW MEXICO-- A HIGHLY VARIABLE SNOWPACK IS APPARENT IN THE NORTHERN HALF OF THE STATE. IT RANGES FROM NEAR NORMAL IN THE SOUTHERN SANGRE DE CRISTO RANGE TO ABOUT 160% OF NORMAL ON THE HEADWATERS OF THE RIO CHAMA RIVER. PROJECTIONS OF WATER SUPPLY ARE MORE OPTIMISTIC THAN LAST MONTH WITH ALL STREAMS EXPECTED TO FLOW AT NORMAL LEVELS OR ABOVE. THE RIO GRANDE MAINSTEM SHOULD SUPPLY BETWEEN 10 AND 15% GREATER THAN NORMAL FLOWS. THE RIO CHAMA IS FORECAST TO FLOW AT NEAR 130% OF AVERAGE.

WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE SOUTH PLATTE RIVER WATERSHED IN COLORADO

as of
APRIL 1, 1978

U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



YOUR WATER SUPPLY

THE SNOWPACK HAS DECREASED SLIGHTLY FROM 130% ON THE SOUTH PLATTE STREAMS TO 120% THIS MONTH. STREAMFLOW FORECASTS WERE ALSO DROPPED PROPORTIONATELY. THERE IS STILL SOME TIME REMAINING TO IMPROVE THE SNOWPACK. CARRYOVER STORAGE IS 75% OF NORMAL, AND CAN PROVIDE SOME SUPPLEMENTAL SUPPLIES. SOIL MOISTURE ALONG THE FRONT RANGE IS REPORTED AS FAIR TO GOOD.

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STREAMFLOW FORECASTS (1000 Ac. Ft.) April—September

FORECAST POINT	FORECAST	% of Average	Average *
Big Thompson River at Drake (1)	120	112	107
Boulder Creek at Orodell	55	112	49
Cache La Poudre River at Canyon Mouth (2)	290	117	247
Clear Creek at Golden (3)	150	118	127
St. Vrain Creek at Lyons	85	113	75

(1) Observed flow plus by-pass to power plants. (2) Observed flow minus trans-basin diversions plus municipal and irrigation diversions. (3) Observed flow minus diversion through August P. Gumlick Tunnel.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Bear Creek	Avg.	Avg.
Coal Creek	Avg.	Avg.
North Fork of South Platte	Avg.	Avg.
North Fork of Cache La Poudre	Avg.	Avg.
Ralston Creek	Avg.	Avg.
Rock Creek	Avg.	Avg.

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average *
Antero	16	15	16	14
Barr Lake	32	20	29	25
Black Hollow	8	3	4	4
Boyd Lake	44	16	34	38
Cache La Poudre	10	7	0	8
Carter Lake	109	89	94	95
Chambers Lake	9	4	1	3
Cheesman	79	27	33	59
Cobb Lake	34	0	5	15
Eleven Mile	98	83	90	88
Fossil Creek	12	7	9	8
Gross	43	23	23	28
Halligan	6	4	3	5
Horsetooth	144	50	90	111
Lake Loveland	14	9	8	10
Lone Tree	9	6	3	7
Mariano	5	5	5	5
Marshall	10	2	4	5
Marston	17	16	17	15
Milton	24	13	19	14
Standley	42	22	30	19
Terry	8	6	6	5
Union	13	10	13	10
Windsor	19	8	10	12
Ralph Price	15	10	10	--

* 1958-1972 period.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average *
Big Thompson	5	378	122
Boulder	3	234	112
Cache La Poudre	7	281	120
Clear Creek	5	212	128
Saint Vrain	3	412	121
South Platte	3	226	104

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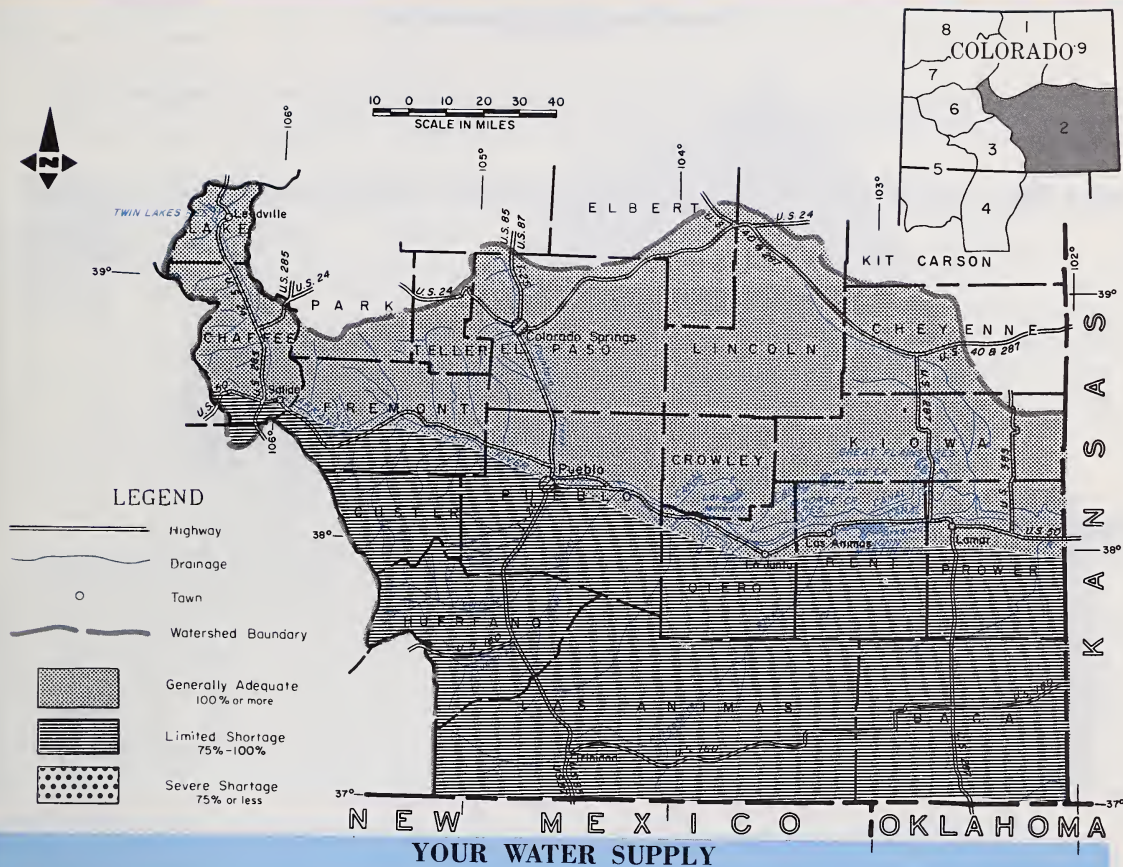


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WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE ARKANSAS RIVER WATERSHED IN COLORADO

as of
APRIL 1, 1978

U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



THE OVERALL SNOWPACK IS SIMILAR TO LAST MONTH. FORECASTS FOR SUMMER STREAM-FLOW ARE NEAR NORMAL. CARRYOVER STORAGE IS PRACTICALLY NON-EXISTENT, SO SOME WATER SHORTAGES COULD EXIST THIS SUMMER. SOIL MOISTURE CONDITIONS ARE REPORTED AS FAIR ABOVE PUEBLO, AND POOR BELOW PUEBLO EXCEPT AROUND ROCKY FORD. HERE CONDITIONS ARE REPORTED AS GOOD. MUCH MORE SNOW AND PRECIPITATION ARE NEEDED.

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STREAMFLOW FORECASTS (1000 Ac. Ft.) April—September

FORECAST POINT	FORE-CAST	% of Average	Average *
Arkansas River near Pueblo (1)	320	110	290
Arkansas River at Salida (2)	340	109	313
Cucharas River near La Veta	9	90	10
Huerfano River near Redwing	12	80	15
Purgatoire River at Trinidad (3)	35	92	38

(1) Plus change in storage in Pueblo Reservoir. (2) Observed flow plus change in Clear Creek, Twin Lakes and Turquoise Reservoirs minus diversions through Busk Ivarhoe, Boustead, Divide, Twin Lakes and Homestake Tunnels and Ewing, Fremont Pass, Wurtz and Columbine ditches. (3) Change in storage in Trinidad Reservoir.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Apishapa River	Avg.	Fair
Fountain Creek	Avg.	Fair
Grape Creek	Avg.	Fair
Hardscrabble Creek	Avg.	Fair
Monument Creek	Avg.	Fair

RESERVOIR STORAGE (Thousand Ac. Ft.)

END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average *
Adobe	62	0	0	17
Clear Creek	11	4	6	8
Cucharas	40	0	0	3
Great Plains	150	0	0	61
Horse Creek	27	0	10	7
John Martin	621	6	21	91
Meredith	42	0	0	14
Model	15	0	0	4
Turquoise	121	47	26	--
Twin Lakes	58	20	7	26
Pueblo	354	2	61	--

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average *
Arkansas	10	219	114
Cucharas	1	114	104
Purgatoire	1	131	97

* 1958-1972 period.

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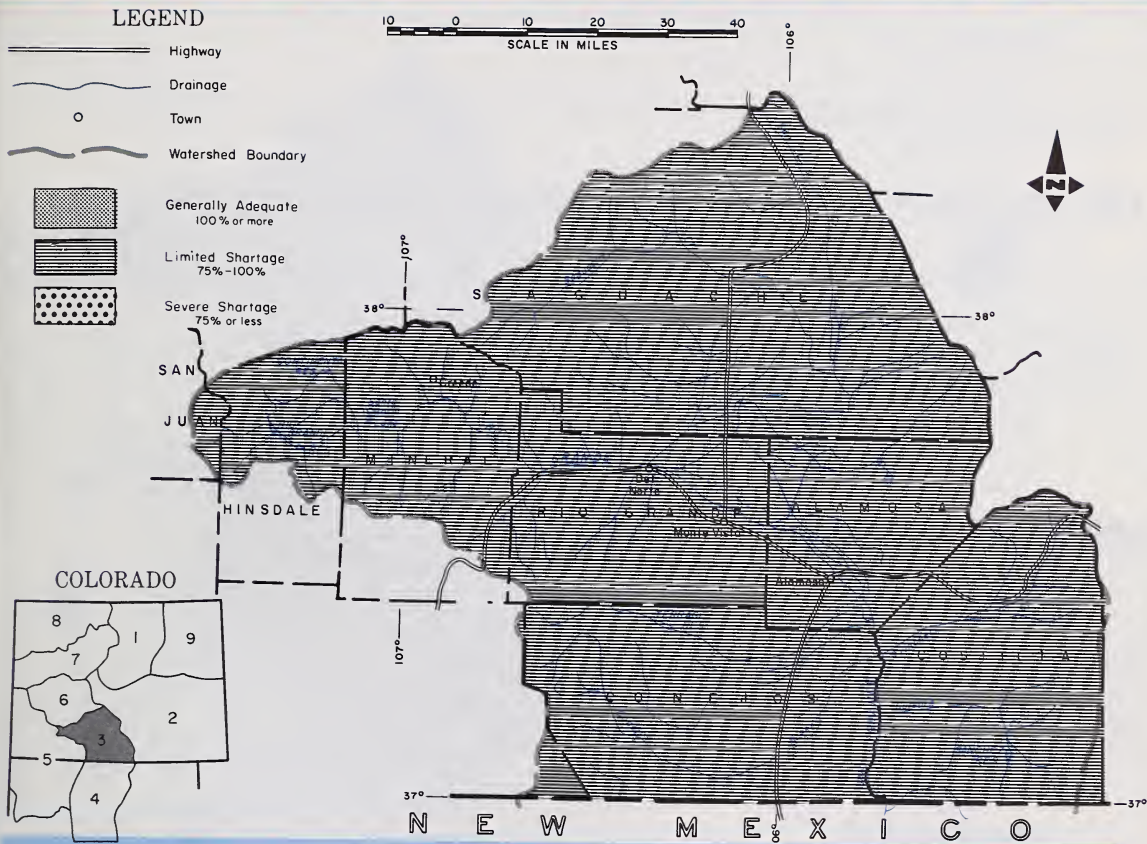


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WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE UPPER RIO GRANDE WATERSHED IN COLORADO

as of
APRIL 1, 1978

U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



YOUR WATER SUPPLY

HEAVY SNOWS THE FIRST PART OF MARCH HAVE PRODUCED A SIGNIFICANT IMPROVEMENT IN THE MOUNTAIN SNOWPACK. BASIN AVERAGES NOW RANGE FROM NEAR NORMAL TO A HIGH OF 146% OF NORMAL ON THE CULEBRA DRAINAGE. LOW ELEVATION SNOW IS DEFICIENT AND HAS DISAPPEARED IN MOST AREAS. STREAMFLOWS ARE EXPECTED TO BE NEAR NORMAL ON MOST WATERSHEDS EXCEPT THE CULEBRA WHICH SHOULD BE WELL ABOVE NORMAL. RESERVOIR STORAGE REMAINS 40% BELOW NORMAL.

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U. S. DEPARTMENT OF AGRICULTURE—SOIL CONSERVATION SERVICE

STREAMFLOW FORECASTS (1000 Ac. Ft.) April—September

FORECAST POINT	FORE-CAST	% of Average	* Average
Alamosa Creek above Terrace Reservoir	50	81	62
Conejos River near Mogote (1)	175	95	184
Culebra Creek at San Luis (2)	22	130	17
Rio Grande at 30 Mile Bridge (3)	105	87	121
Rio Grande near Del Norte (3)	400	86	468
South Fork of Rio Grande at South Fork	100	87	115

(1) Observed flow plus change in storage in Platoro Reservoir. (2) Observed flow plus change in storage in Sanchez Reservoir. (3) Observed flow plus change in storage in Santa Maria, Rio Grande and Continental Reservoirs.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Saguache Creek	Avg.	Fair
Sangre de Cristo Cr.	Avg.	Fair
Trinchera Creek	Avg.	Fair

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average *
Continental	27	5	2	6
Platoro	60	13	13	9
Rio Grande	46	7	4	18
Sanchez	103	6	5	14
Santa Maria	45	4	8	7
Terrace	18	1	4	6

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average *
Alamosa	1	---	66
Conejos	3	414	113
Culebra	2	195	146
Rio Grande	10	336	93

* 1958-1972 period.

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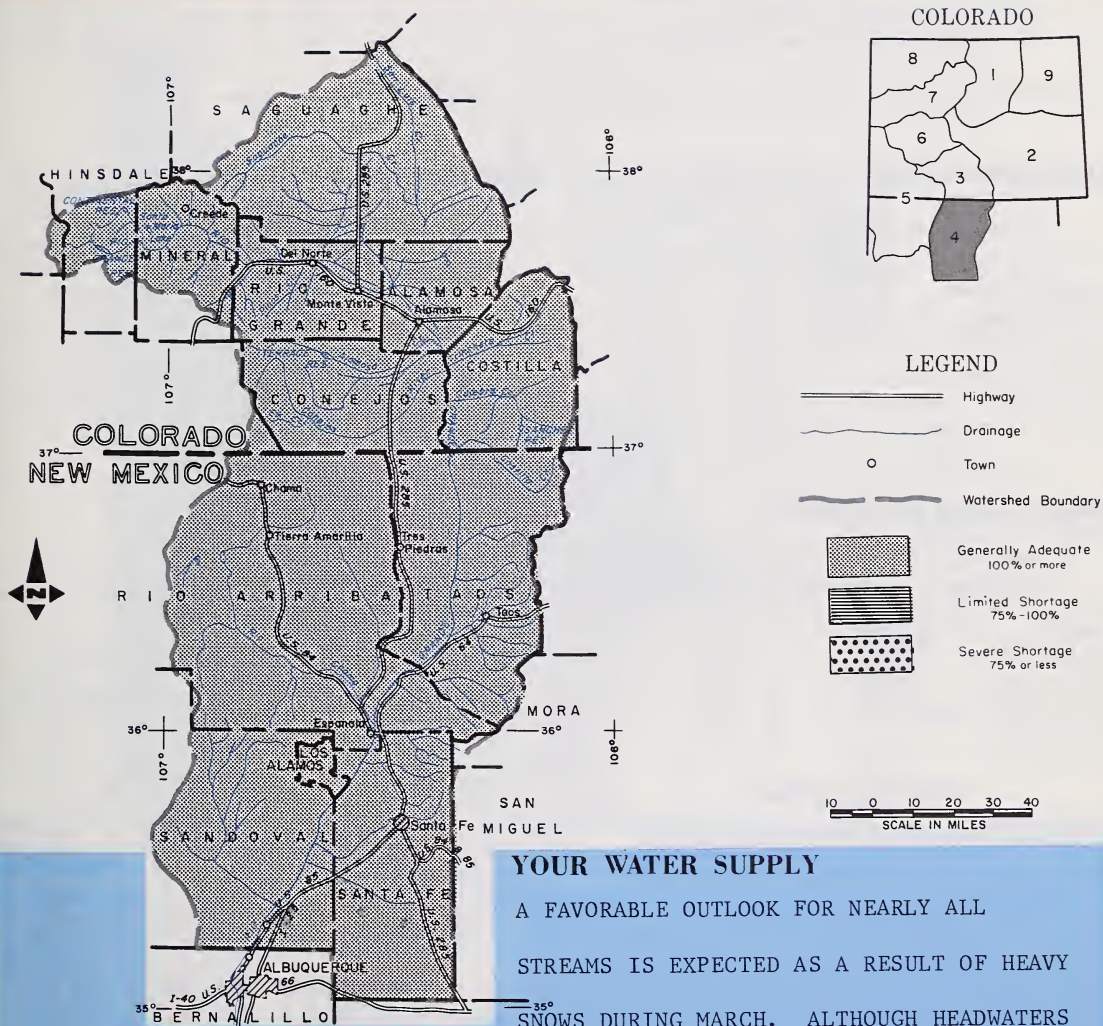


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WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE RIO GRANDE WATERSHED IN NEW MEXICO

as of
APRIL 1, 1978

U.S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



OF THE RIO GRANDE IN COLORADO HAVE ONLY ABOUT NORMAL SNOWCOVER, MOST NEW MEXICO WATERSHEDS HAVE SNOWPACK 10 TO 60% ABOVE NORMAL. THIS FORTUNATE CIRCUMSTANCE SHOULD PRODUCE NEAR NORMAL STREAMFLOWS ON MOST WATERSHEDS.

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STREAMFLOW FORECASTS (1000 Ac. Ft.) March—July

FORECAST POINT	FORE-CAST	% of Average	Average *
Costilla Creek at Costilla (1)	24	126	19
Jemez River near Jemez	38	131	29
Pecos River at Pecos	40	98	41
Red River at Mouth near Questa	32	110	29
Rio Chama at El Vado	250	132	190
Rio Grande at Otowi (2)	600	114	526
Rio Grande at San Marcial (2)	400	113	355
Rio Hondo near Valdez	18	128	14
Santa Cruz River at Cundiyo	15	115	13

(1) Observed flow plus change in Costilla Reservoir. (2) Observed flow plus change in storage in El Vado and Abiquiu Reservoir.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Embudo Creek	Avg.	Fair
Mora River	Avg.	Fair
Nambe Creek	Avg.	Fair
Rio Ojo Caliente	Exc.	Exc.
Rio Pueblo de Taos	Exc.	Avg.
Santa Fe Creek	Avg.	Fair

RESERVOIR STORAGE (Thousand Ac. Ft.)

END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average *
Avalon	5	2	4	--
Caballo	344	23	81	65
Conchas	273	107	83	184
El Vado	195	45	111	6
Elephant Butte	2195	241	351	394
McMillan	34	10	14	--
Sumner	111	48	2	63

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average *
Pecos	1	100	100
Red River	1	227	143
Rio Chama	3	671	160
Rio Grande, NM	8	195	111
Rio Hondo	1	171	---

* 1958-1972 period.

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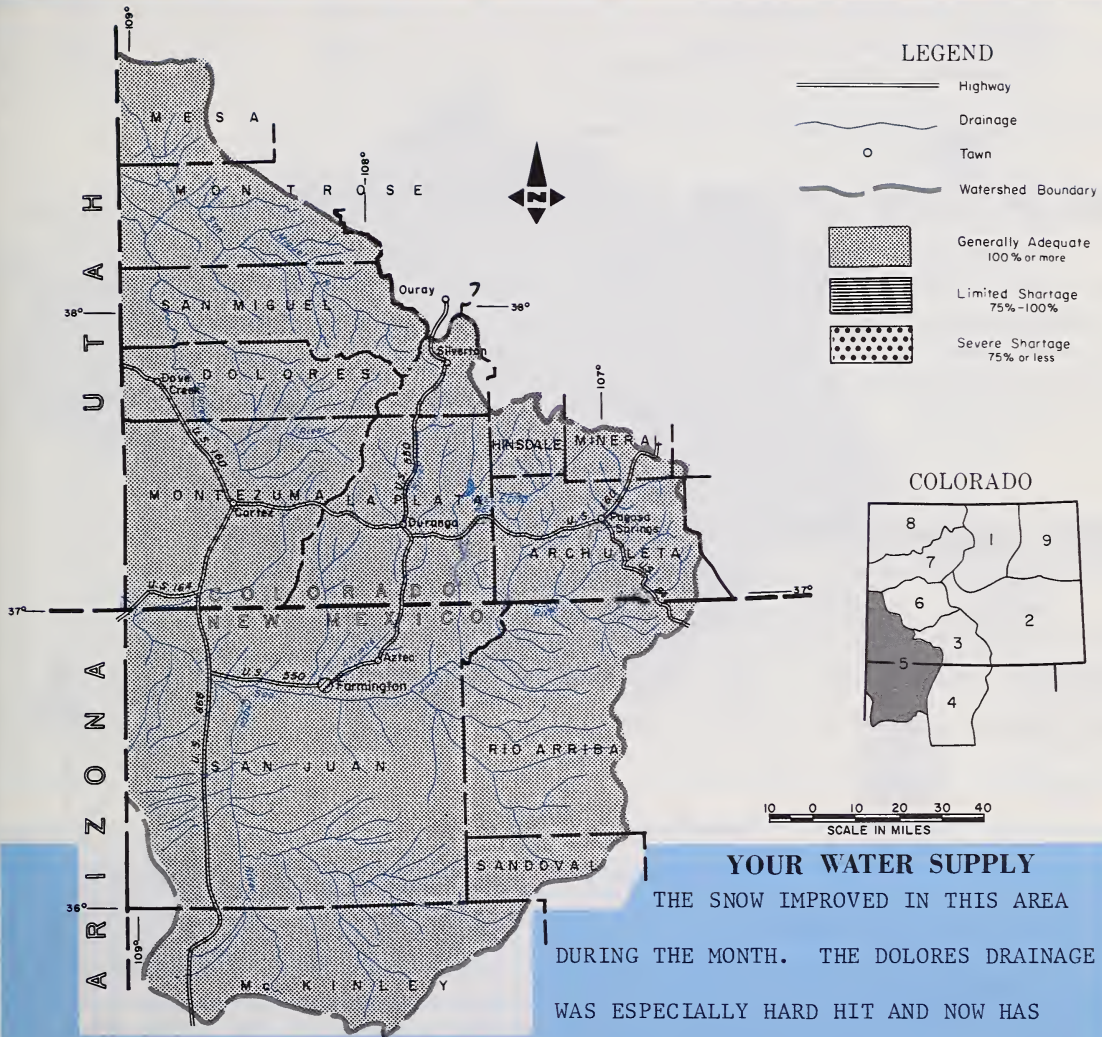


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WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE SAN MIGUEL, DOLORES, ANIMAS, AND SAN JUAN WATERSHEDS IN COLORADO AND NEW MEXICO

as of
APRIL 1, 1978

U.S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



YOUR WATER SUPPLY
THE SNOW IMPROVED IN THIS AREA
DURING THE MONTH. THE DOLORES DRAINAGE
WAS ESPECIALLY HARD HIT AND NOW HAS
159% OF NORMAL SNOW. IF TEMPERATURES TURN WARM AND REMAIN SO FOR A FEW DAYS,
SOME HIGH WATER ALONG LOW DRAINAGES CAN BE EXPECTED. CERTAINLY WATER
SUPPLIES SHOULD BE ADEQUATE. CARRYOVER STORAGE IS 78% OF NORMAL.

This report prepared by

JACK N. WASHICHEK—BERNARD A. SHAFER
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DENVER, COLORADO

Issued by

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D. W. GILLASPE—AREA CONSERVATIONIST
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JAMES E. TATUM—AREA CONSERVATIONIST
SANTA FE, NEW MEXICO

STREAMFLOW FORECASTS (1000 Ac. Ft.) April—September

FORECAST POINT	FORE-CAST	% of Average	Average *
Animas River at Durango	575	136	423
Dolores River at Dolores	325	140	232
La Plata River at Hesperus	34	142	24
Los Pinos River at Bayfield (1)	232	117	198
Mancos River near Towac (2)	19	136	14
Inflow to Navajo River (1 & 3)	750	126	597
Piedra Creek at Arboles	225	122	185
San Juan River at Carracas	400	113	354
San Miguel River at Placerville	180	138	130

(1) Observed flow plus change in storage in Vallecito Reservoir. (2) March-July. (3) April-July.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Florida River	Exc.	Exc.
Hermosa Creek	Exc.	Exc.
West Dolores River	Exc.	Exc.
Williams Creek	Exc.	Exc.

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average *
Groundhog	22	7	7	10
Jackson Gulch	10	4	-	5
Lemon	40	5	17	20
Navajo	1696	959	1102	1192
Vallecito	126	25	48	57

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average *
Animas	6	486	137
Dolores	4	652	159
San Juan	5	385	115

* 1958-1972 period.

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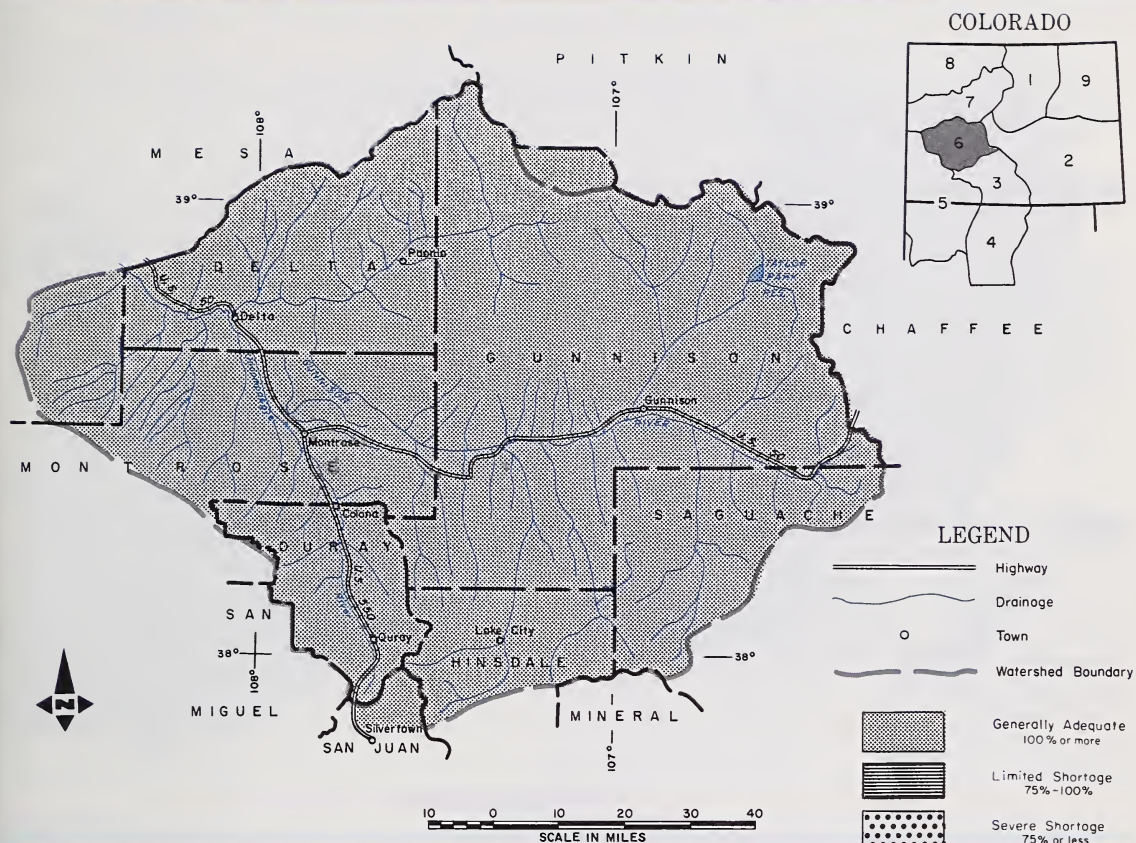


FIRST CLASS MAIL

WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE GUNNISON RIVER WATERSHED IN COLORADO

as of
APRIL 1, 1978

U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



YOUR WATER SUPPLY

THE SNOWPACK IN THE GUNNISON BASIN IS EXCELLENT AND SHOULD PROVIDE ADEQUATE WATER THIS SUMMER. STREAMFLOW FORECASTS RANGE FROM A LOW OF 117% ON THE MAINSTEM TO 142% ON THE UNCOMPAHGRE. SNOW ON GRAND MESA IS ESPECIALLY GOOD. CARRYOVER STORAGE IS 78% OF NORMAL. SOIL MOISTURE IS REPORTED AS FAIR IN THE IRRIGATED AREAS.

This report prepared by

JACK N. WASHICHEK—BERNARD A. SHAFER
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U. S. DEPARTMENT OF AGRICULTURE — SOIL CONSERVATION SERVICE

STREAMFLOW FORECASTS (1000 Ac. Ft.) April—September

FORECAST POINT	FORE-CAST	% of Average	Average *
Gunnison River inflow to Blue Mesa Reservoir (1)	925	117	793
Gunnison River near Grand Junction (2)	1600	132	1184
North Fork of Gunnison (3)	350	133	263
Surface Creek near Cedaredge	21	131	16
Uncompahgre River at Colona	190	142	134

(1) Observed flow plus change in storage in Taylor Reservoir. (2) Observed flow plus change in storage in Blue Mesa, Morrow Point and Taylor Reservoirs. (3) Observed flow plus change in storage in Paonia Reservoir.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Ohio Creek	Exc.	Exc.
Slate River	Exc.	Exc.
Taylor River	Exc.	Exc.
Tomichi Creek	Exc.	Exc.

RESERVOIR STORAGE (Thousand Ac. Ft.)

END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average *
Blue Mesa	830	243	380	315
Morrow Point	121	115	115	114
Taylor	106	29	55	65

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average *
Gunnison	12	346	140
Surface Creek	3	412	154
Uncompahgre	3	312	151

* 1958-1972 period

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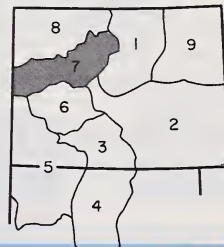
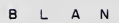
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APRIL 1, 1978

LEGEND



STREAMFLOW FORECASTS ARE UP SLIGHTLY FROM A MONTH AGO. CURRENT SNOWPACK SHOULD PROVIDE EXCELLENT WATER SUPPLIES THIS SUMMER. THERE IS STILL ANOTHER MONTH WHEN SNOW CAN FALL IN THE HIGH COUNTRY. CARRYOVER STORAGE IS ONLY 47% OF THE 15-YEAR AVERAGE, SO WON'T PROVIDE TOO MUCH SUPPLEMENTAL WATER. SOIL MOISTURE CONDITIONS RANGE FROM FAIR TO GOOD IN THE IRRIGATED AREAS.

U.S. DEPARTMENT OF AGRICULTURE—SOIL CONSERVATION SERVICE

STREAMFLOW FORECASTS (1000 Ac. Ft.) April—September

FORECAST POINT	FORE-CAST	% of Average	Average *
Blue River inflow to Dillon Reservoir	220	130	169
Blue River inflow to Green Mountain Reservoir (1)	380	128	297
Colorado River near Cameo (6)	3100	131	2370
Colorado River near Dotsero (3)	1850	129	1434
Colorado River inflow to Granby Reservoir (2)	300	132	228
Roaring Fork at Glenwood Springs (4)	800	112	713
Williams Fork near Parshall (5)	80	127	63
Willow Creek inflow to Willow Creek Reservoir	60	128	47

(1) Observed flow plus diversions through Roberts Tunnel and change in storage in Dillon Reservoir. (2) Observed flow corrected for change in storage in Lake Granby as furnished by U.S.B.R. and diversions by Adams Tunnel and Grand River Ditch. (3) Observed flow plus the changes as indicated in (1), (2) and (5) plus Moffat Ditch and change in Homestake, Williams Fork, Green Mt. and Willow Creek Reservoirs. (4) Observed flow plus diversions through Divide and Twin Lakes Tunnels plus change in storage in Ruedi Reservoir. (5) Observed flow plus diversions through August P. Gumlick Tunnel. (6) Observed flow plus the changes as indicated in (3) and (4).

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Brush	Exc.	Exc.
Eagle River	Exc.	Exc.
Gypsum Creek	Exc.	Exc.

RESERVOIR STORAGE (Thousand Ac. Ft.)

END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average*
Dillon	254	111	203	231
Granby	466	23	161	213
Green Mountain	139	40	69	54
Homestake	43	0	20	15
Ruedi	101	65	68	59
Vega	32	--	6	12
Williams Fork	97	26	46	25
Willow Creek	9	6	6	6

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average *
Blue River	8	238	131
Colorado	19	254	136
Plateau	3	411	151
Roaring Fork	7	233	126
Williams Fork	3	193	130
Willow	2	232	122

* 1958-1972 period.

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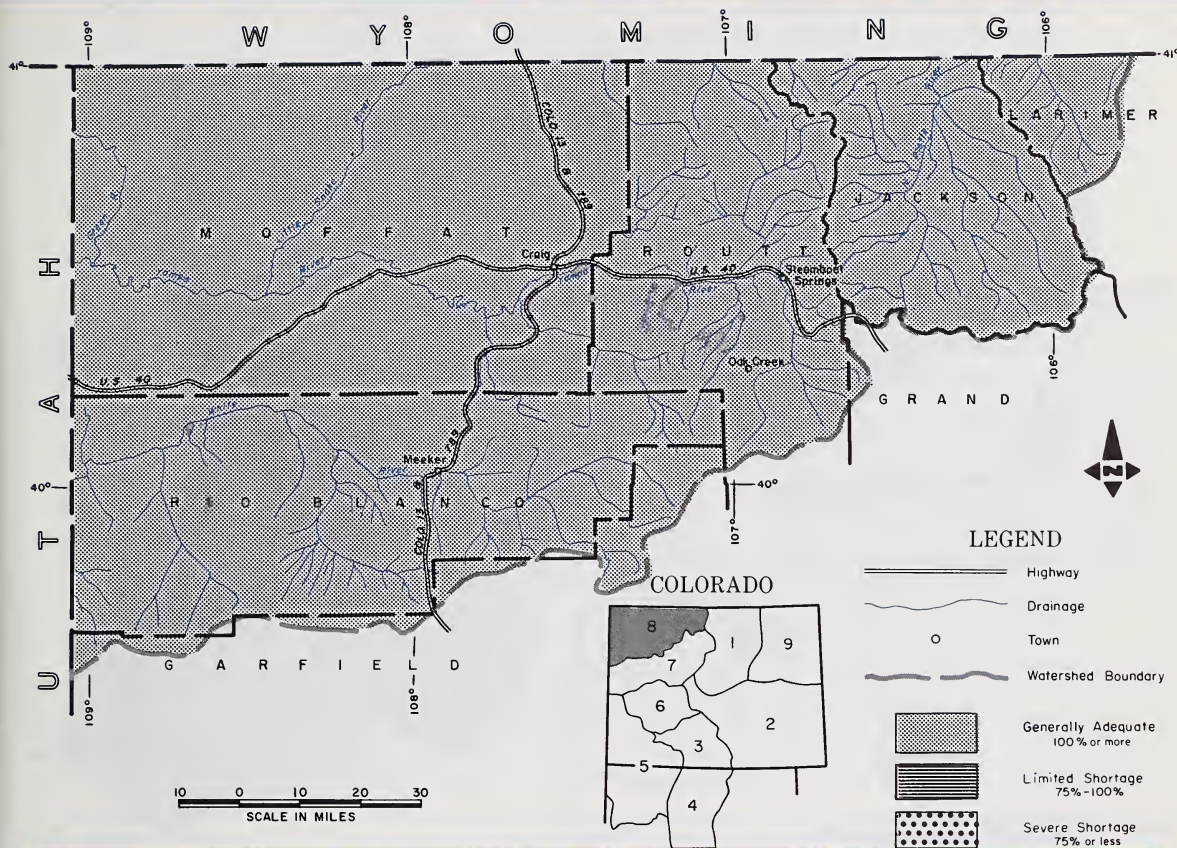


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WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE YAMPA, WHITE, AND NORTH PLATTE RIVER WATERSHEDS IN COLORADO

as of
APRIL 1, 1978

U.S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



YOUR WATER SUPPLY

THESE BASINS IN THE NORTHERN THIRD OF THE STATE HAVE THE HIGHEST SNOWPACK IN COLORADO. A NUMBER OF SNOW COURSES ARE THE MAXIMUM OF RECORD. THE TOWER SNOW COURSE HAS 175 INCHES OF SNOW CONTAINING 75.7 INCHES OF WATER, THE HIGHEST EVER RECORDED IN COLORADO. MANY LOW AREAS WILL EXPERIENCE HIGH WATER THIS SUMMER. SOIL MOISTURE IS REPORTED AS GOOD.

This report prepared by

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STREAMFLOW FORECASTS (1000 Ac. Ft.) April—September

FORECAST POINT	FORE-CAST	% of Average	Average *
Elk River at Clark	280	141	198
Laramie River near Woods	150	118	127
Little Snake River at Lily	550	170	324
North Platte River at Northgate	310	129	240
White River near Meeker	400	136	295
Yampa River near Maybell	1300	144	905
Yampa River at Steamboat Springs	400	146	274

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Canadian River	Exc.	Exc.
Hunt Creek	Exc.	Exc.
Illinois River	Exc.	Exc.
Michigan River	Exc.	Exc.
Oak Creek	Exc.	Exc.
Trout Creek	Exc.	Exc.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average *
Elk	2	290	157
Laramie	3	237	121
North Platte	5	200	121
White	2	289	144
Yampa	6	258	144

* 1958-1972 period.

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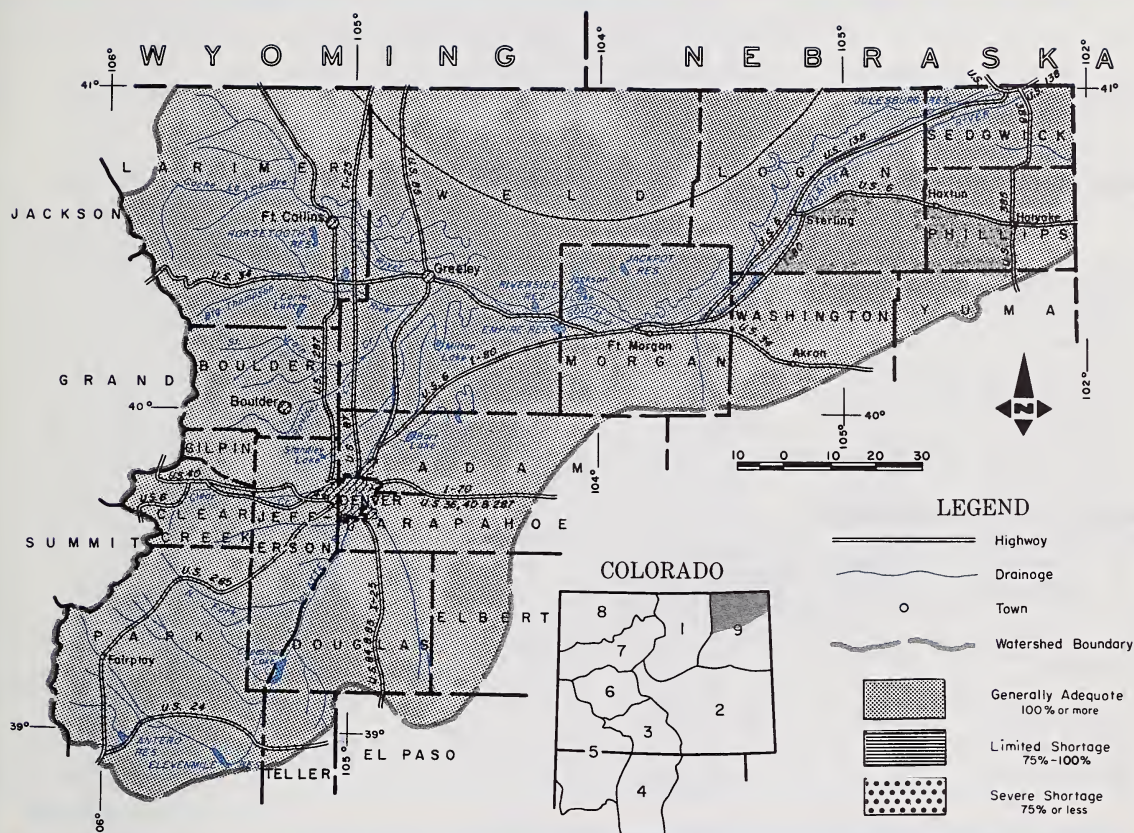


FIRST CLASS MAIL

WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE LOWER SOUTH PLATTE RIVER WATERSHED IN COLORADO

as of
APRIL 1, 1978

U.S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



YOUR WATER SUPPLY

STREAMFLOW FORECASTS WERE LOWERED SLIGHTLY THIS MONTH. THE SNOWPACK RANGES FROM A LOW OF 104% ON THE SOUTH PLATTE TO 128% ON CLEAR CREEK. SUMMER FLOWS SHOULD STILL BE ABOVE NORMAL. RESERVOIR STORAGE IS 79% OF THE 15-YEAR NORMAL, BUT WILL PROVIDE SOME SUPPLEMENTAL SUPPLIES. VALLEY SOIL MOISTURE FROM FORT MORGAN EAST IS REPORTED AS POOR TO FAIR. HEAVY SNOWFALL DURING APRIL WOULD IMPROVE THE OUTLOOK.

This report prepared by

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U.S. DEPARTMENT OF AGRICULTURE—SOIL CONSERVATION SERVICE

STREAMFLOW FORECASTS (1000 Ac. Ft.) April—September

FORECAST POINT	FORE-CAST	% of Average	Average ^k
Big Thompson River at Drake (1)	120	112	107
Boulder Creek at Orodell	55	112	49
Cache La Poudre River at Canyon Mouth (2)	290	117	247
Clear Creek at Golden (3)	150	118	127
Saint Vrain Creek at Lyons	85	113	75

(1) Observed flow plus by-pass to power plants. (2) Observed flow minus trans-basin diversions plus municipal and irrigation diversions. (3) Observed flow minus diversion through Berthoud Pass Ditch.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
South Platte from Greeley to Fort Morgan	Exc.	Avg.
South Platte from Fort Morgan to Sterling	Exc.	Avg.
South Platte below Sterling	Avg.	Fair

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average *
Big Thompson	5	378	122
Boulder	3	234	112
Cache La Poudre	7	281	120
Clear Creek	5	212	128
Saint Vrain	3	412	121
South Platte	3	226	104

RESERVOIR STORAGE (Thousand Ac. Ft.)

END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average *
Carter	109	89	94	95
Cheesman	79	27	33	59
Eleven Mile	98	83	90	88
Empire	38	34	34	33
Horsetooth	144	50	90	111
Jackson	35	34	33	34
Julesburg	28	23	21	22
Point of Rocks	70	67	67	66
Prewitt	33	12	28	23
Riverside	58	46	60	58

* 1958-1972 period.

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APPENDIX I

SNOW COURSE MEASUREMENTS as of APRIL 1, 1978

SNOW COURSE	CURRENT INFORMATION			PAST RECORD	
	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CONTENT (INCHES)	
				LAST YEAR	AVG 58-72
NORTH PLATTE BASIN					
<u>Laramie River</u>					
Deadman Hill	3/29	60	21.2	7.2	16.8
McIntyre	3/28	36	12.6	5.6	10.8
Roach	3/28	64	21.5	10.5	18.2
<u>North Platte River</u>					
Cameron Pass	3/30	78	32.0	17.6	28.7
Columbine Lodge	3/30	78	34.9	15.0	24.0
Northgate	3/30	23	6.9	3.5	6.5
Park View	3/29	30	10.0	5.9	9.2
Willow Cr. Pass (B)	3/29	44	14.8	7.2	12.7
SOUTH PLATTE BASIN					
<u>Boulder Creek</u>					
Baltimore	3/30	23	7.2	4.3	6.8
Boulder Falls	3/22	46	15.1	6.7	13.4
University Camp	3/22	62	22.0	7.9	19.3
<u>Big Thompson River</u>					
Deer Ridge	3/30	19	4.7	0.0	4.8
Hidden Valley	3/30	35	10.2	2.5	10.5
Lake Irene (B)	3/26	83	29.6	9.8	20.9
Long's Peak	3/30	39	13.4	3.1	10.9
Two Mile	3/30	53	17.8	4.6	15.1
<u>Cache La Poudre</u>					
Bennett Creek	3/30	20	6.5	1.0	---
Big South	3/31	5	1.6	0.0	2.1
Cameron Pass	3/30	78	32.0	17.6	28.7
Chambers Lake	3/29	33	13.1	2.1	9.6
Deadman Hill	3/29	60	21.2	7.2	16.8
Hourglass Lake	3/30	26	8.8	2.4	6.7
Joe Wright	3/30	75	29.2	16.8	---
Lost Lake	3/31	40	14.8	3.8	11.8
Red Feather	3/29	21	7.3	2.1	6.9
<u>Clear Creek</u>					
Baltimore (B)	3/30	23	7.2	4.3	6.8
Berthoud Falls	3/30	44	15.6	7.2	13.6
Empire	3/30	27	8.3	4.6	7.8
Grizzly Peak (B)	3/28	70	27.5	10.9	18.9
Loveland Lift	Discontinued		---	15.6	21.1
Loveland Pass	3/28	58	22.1	11.0	15.7
<u>St. Vrain River</u>					
Copeland Lake	3/31	14	5.0	0.6	4.4
Ward	3/29	24	7.0	2.8	6.5
Wild Basin	3/31	43	14.8	3.1	11.2
<u>South Platte River</u>					
Como	3/31	21	6.2	1.8	---
Geneva Park	3/28	12	3.1	0.3	3.8
Horseshoe Mt.	3/31	35	9.5	4.3	---
Hoosier Pass	3/30	46	13.3	6.8	12.9
Jefferson Creek	3/31	34	10.5	4.8	9.2
Mosquito	3/30	36	10.9	1.1	---
Trout Creek Pass	3/29	6	1.4	0.0	---
ARKANSAS BASIN					
<u>Arkansas River</u>					
Bigelow Divide	3/30	17	4.1	6.3	6.5
Cooper Hill (B)	---	--	---	6.5	11.3
East Fork	3/30	38	13.0	5.7	9.8
Four Mile Park	3/30	21	5.6	0.6	5.1
Fremont Pass	3/30	64	23.4	10.4	16.2
Garfield	3/31	37	13.6	5.8	13.0
Hermit Lake	3/30	22	7.5	3.4	---
Monarch Pass	3/31	50	19.3	7.5	17.1
Tennessee Pass	3/30	45	13.2	5.2	10.6
Twin Lakes Tunnel	3/30	36	11.4	3.5	10.7
Westcliffe	3/30	15	5.0	4.5	6.3

SNOW COURSE	CURRENT INFORMATION			PAST RECORD	
	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CONTENT (INCHES)	
				LAST YEAR	AVG 58-72
<u>Cucharas River</u>					
Apishapa	3/30	21	8.0	6.5	---
Cucharas Creek	3/30	26	8.3	7.0	---
La Veta Pass (B)	3/30	23	7.7	6.8	7.4
<u>Purgatoire River</u>					
Bourbon	3/30	28	6.8	5.2	7.0
RIO GRANDE BASIN-COLO					
<u>Alamosa River</u>					
Silver Lakes	3/30	12	3.5	0.0	5.3
<u>Conejos River</u>					
Cumbres	3/28	72	29.7	6.6	18.0
La Manga	3/28	56	18.7	6.5	---
Platoro	3/30	40	13.5	3.6	16.3
River Springs	3/31	3	0.7	0.4	4.6
<u>Culebra River</u>					
Brown Cabin	3/30	22	8.1	2.6	---
Cottonwood (B)	3/30	21	7.7	1.4	---
Culebra	3/29	48	15.3	5.1	8.4
La Veta Pass (B)	3/30	23	7.7	6.7	7.4
Trinchera (B)	NS	---	---	5.0	---
<u>Rio Grande</u>					
Cochetopa Pass	3/28	18	5.4	2.2	5.9
Grayback	3/30	37	11.1	3.6	---
Hiway	3/30	68	23.8	7.4	23.8
Lake Humphrey	3/28	15	4.3	1.1	6.1
Love Lake	3/30	27	9.2	2.1	---
Pass Creek	3/30	26	9.7	2.4	9.8
Pool Table	3/30	14	3.0	2.1	6.1
Porcupine	3/30	32	7.9	2.0	10.5
Santa Maria	3/30	14	3.4	0.0	3.6
Upper Rio Grande	3/30	24	7.1	0.7	7.5
Wolf Creek Pass	3/30	69	26.6	8.4	25.5
Wolf Cr. Summit (B)	3/30	80	27.5	9.0	28.3
RIO GRANDE BASIN-NM					
<u>Pecos River</u>					
Panchuela	3/31	5	2.0	2.0	2.0
<u>Rio Chama</u>					
Bateman	3/30	43	17.4	4.9	11.7
Chama Divide	3/28	10	3.9	0.0	1.7
Chamita	3/28	29	11.6	0.0	7.2
<u>Rio Grande</u>					
Alamitos	3/29	16	5.0	5.1	---
Big Tesuque	3/30	18	6.8	0.1	4.6
Cordova	3/28	38	10.1	6.3	10.1
Elk Cabin	3/28	6	2.1	1.5	2.5
Gallegos Peak	3/29	32	9.8	---	---
Hopewell	3/30	53	18.2	6.7	---
La Cueva	3/30	18	7.3	3.6	---
North Costilla	3/30	23	7.0	3.8	---
Palo	3/28	22	6.4	3.8	---
Payrole	NS	---	---	0.0	6.8
Quemazon	3/30	26	7.6	5.0	9.0
Rio En Medio	3/30	32	11.8	4.4	7.4
Sandoval	3/30	12	4.3	3.8	4.2
Senorita Divide	3/29	25	9.8	1.3	---
Taos Canyon	3/28	15	5.1	3.0	3.9
Tres Ritos	3/29	11	4.4	2.4	4.8
<u>Rio Hondo</u>					
Taos Powderhorn	4/03	74	26.4	15.5	---
<u>Red River</u>					
Hematite Park (B)	3/30	14	5.0	2.2	3.5
Red River	3/30	20	7.2	3.2	---

NOTE: NS - No Survey
(B) - On Adjacent Drainage

APPENDIX I

SNOW COURSE MEASUREMENTS as of APRIL 1, 1978

SNOW COURSE	CURRENT INFORMATION			PAST RECORD	
	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	LAST YEAR	58-72
SAN JUAN-DOLORES BASIN					
<u>Animas River</u>					
Cascade	3/31	38	15.3	1.6	10.2
Lemon	3/31	27	10.9	0.0	---
Mineral Creek	3/30	60	21.6	5.6	15.4
Molas Lake	3/30	48	19.1	1.8	12.6
Purgatory	4/03	74	23.9	5.2	---
Red Mt. Pass (B)	3/30	102	39.2	13.7	31.5
Silverton Sub-Sta.	3/30	26	10.6	0.0	5.2
Spud Mountain	3/30	77	28.8	5.0	23.1
<u>Dolores River</u>					
Lizard Head	3/31	64	23.2	4.1	17.2
Lone Cone	3/30	56	21.2	6.6	---
Ophir Loop	3/29	62	21.8	7.7	---
Rico	3/31	27	10.4	0.0	6.1
Telluride	3/29	35	13.2	1.4	6.5
Trout Lake	3/29	60	22.3	5.1	13.7
<u>San Juan River</u>					
Chama Divide (B)	3/28	10	3.9	0.0	1.7
Chamita (B)	3/28	29	11.6	0.0	7.2
Upper San Juan	3/30	86	35.6	9.9	28.6
Wolf Cr. Pass (B)	3/30	69	26.6	8.4	25.5
Wolf Cr. Summit	3/30	80	27.5	9.0	28.3
GUNNISON BASIN					
<u>Gunnison River</u>					
Alexander Lake	3/30	91	36.4	8.5	22.8
Blue Mesa	3/30	31	8.1	3.9	7.2
Butte	3/30	58	19.9	5.5	---
Cochetopa Pass (B)	3/28	18	5.4	2.2	5.9
Crested Butte	3/30	54	21.9	6.3	13.0
Keystone	3/30	75	30.0	8.1	20.0
Lake City	3/29	31	7.8	2.1	8.0
Mesa Lakes (B)	3/31	68	26.0	7.0	17.6
McClure Pass	3/30	46	18.2	7.9	15.1
Park Cone	3/28	42	12.7	2.2	10.6
Park Reservoir	3/30	97	37.5	8.5	23.8
Porphry Creek	3/31	58	22.1	8.0	16.9
Tomichi	3/31	43	16.2	5.3	12.6
<u>Surface Creek</u>					
Alexander Lake	3/30	91	36.4	8.5	22.8
Mesa Lakes	3/31	68	26.0	7.0	17.6
Park Reservoir	3/30	97	37.5	8.5	23.8
<u>Uncompahgre River</u>					
Ironton Park	3/30	48	20.4	8.2	10.2
Red Mountain Pass	3/30	102	39.2	13.7	31.5
Telluride (B)	3/29	35	13.2	1.4	6.5
COLORADO BASIN					
<u>Blue River</u>					
Blue River	3/30	31	8.1	5.1	8.5
Fremont Pass	3/30	64	23.4	10.4	16.2
Officers Gulch	3/28	28	8.0	1.4	7.4
Grizzly Peak	3/28	70	27.5	10.9	18.9
Hoosier Pass (B)	3/30	46	13.3	6.8	12.9
Shrine Pass	3/28	66	23.9	10.7	18.1
Snake River	3/28	37	12.2	3.6	7.9
Summit Ranch	3/28	33	10.5	4.4	7.1

SNOW COURSE	CURRENT INFORMATION			PAST RECORD	
	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	LAST YEAR	58-72
<u>Colorado River</u>					
Arrow	3/29	45	15.9	7.8	13.2
Berthoud Pass	3/29	55	20.4	9.9	15.9
Berthoud Summit	3/30	66	24.2	13.8	19.7
Cooper Hill	NS	---	---	6.5	11.3
Fiddler Gulch	Discontinued	---	---	6.5	14.5
Glenmar Ranch	3/29	29	9.9	6.5	8.5
Gore Pass	3/28	41	14.6	4.9	10.2
Grand Lake	3/26	42	14.5	4.5	8.2
Lake Irene	3/26	83	29.6	9.8	20.9
Lapland	3/30	33	10.7	4.1	10.4
Lulu	3/27	80	31.9	10.4	18.7
Lynx Pass	3/28	48	16.8	6.0	12.8
McKenzie Gulch	3/28	22	7.5	2.4	5.0
Middle Fork	3/29	34	12.3	6.3	9.9
Milner	3/26	60	20.0	6.4	13.6
North Inlet	3/27	41	13.6	3.9	8.7
Pando	3/28	44	13.1	4.2	10.3
Phantom Valley	3/26	48	17.4	4.5	10.8
Ranch Creek	3/29	38	12.9	4.8	9.9
Tennessee Pass (B)	3/30	45	13.2	5.2	10.6
Vail	3/27	86	32.8	---	---
Vasquez	3/30	47	16.6	8.2	12.9
<u>Roaring Fork</u>					
Aspen	3/28	71	26.7	12.0	17.1
Independence Pass	3/30	56	20.7	9.1	17.5
Ivanhoe	3/29	66	23.0	9.6	18.1
Kiln	3/29	47	14.3	6.2	---
Lift	3/28	59	20.4	10.2	17.8
McClure Pass	3/30	46	18.2	7.9	15.1
Nast	3/30	24	7.4	2.1	5.6
North Lost Trail	3/30	44	16.7	6.2	14.6
<u>Williams Fork River</u>					
Glenmar Ranch	3/29	29	9.9	6.5	8.5
Jones Pass	3/29	58	22.0	10.1	15.5
Middle Fork	3/29	34	12.3	6.3	9.9
<u>Willow Creek</u>					
Granby	3/29	30	9.8	3.4	7.5
Willow Cr. Pass	3/29	44	14.8	7.2	12.7
<u>Plateau Creek</u>					
Mesa Lakes	3/31	68	26.0	7.0	17.6
Park Reservoir	3/30	97	37.5	8.5	23.8
Trickle Divide	3/30	98	38.0	9.2	25.9
YAMPA BASIN					
<u>Elk River</u>					
Elk River	3/29	66	27.1	9.4	17.8
Hahn's Peak	3/29	53	22.3	7.6	13.7
<u>White River</u>					
Burro Mountain	3/27	67	25.0	9.5	17.2
Rio Blanco	3/28	55	22.4	6.9	15.7
<u>Yampa River</u>					
Bear River	3/27	45	14.4	4.9	11.2
Columbine (B)	3/30	78	34.9	15.0	24.0
Crosho	3/27	56	20.2	8.2	---
Dry Lake	3/30	76	31.3	11.1	20.0
Lynx Pass (B)	3/28	48	16.8	6.0	12.8
Rabbit Ears	3/30	92	37.7	13.9	25.9
Tower	3/28	175	75.7	25.4	---
Yampa View	3/30	49	21.2	9.7	14.6

NOTE: NS - No Survey
(B) - On Adjacent Drainage

LIST of COOPERATORS

The following organizations cooperate in snow surveys for the Colorado, Platte, Arkansas and Rio Grande watersheds. Many other organizations and individuals furnish valuable information for the snow survey reports. Their cooperation is gratefully acknowledged.

STATE

- Colorado State Engineer
- New Mexico State Engineer
- Nebraska State Engineer
- Colorado State University Experiment Station
- Rocky Mountain Forest and Range Experiment Station
- New Mexico Dept. of Game and Fish

FEDERAL

- Department of Agriculture
 - Forest Service
 - Soil Conservation Service
- Department of Interior
 - Bureau of Reclamation
 - Geological Survey
 - National Park Service
 - Indian Service
- Department of Commerce
 - NOAA, National Weather Service
- Defense Department
 - Army Engineer Corps
- Atomic Energy Commission

INVESTOR OWNED UTILITIES

- Colorado Public Service Company
- Public Service Company of New Mexico

MUNICIPALITIES

City of Denver	City of Greeley
City of Boulder	City of Fort Collins

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- Arkansas Valley Ditch Association
- Colorado River Water Conservation District

IRRIGATION PROJECTS

- Farmers Reservoir and Irrigation Company
- San Luis Valley Irrigation District
- Santa Maria Reservoir Company
- Costilla Land Company
- Uncompahgre Valley Water Users' Association
- Twin Lakes Reservoir and Canal Company
- Trinchera Irrigation Co.

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- Aspen Skiing Corp.
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- Vail Associates, Incorporated
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- Taylor Lumber and Land Company

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